

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Hioneer Hi-Bred International, Inc.

THECE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE CHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR RETING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT A BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'93Y90'

In Testimone Marrest, I have hereunto set my hand and caused the seal of the Minut Unriety Protection Office to be affixed at the City of Washington, D.C. this thirtieth day of July, in the year two thousand and eight.

Benze

Commissioner Plant Variety Protection Office Agricultural Marketing Service Commerce single

of Agriculture

NAME (Please print or type)

CAPACITY OR TITLE

01/25/2008

(See reverse to: instructions and information collection burden statement)

DATE

Paul D. Koelling

Process Improvement Manager

#200800101

GENERAL INSTRUCTIONS: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E, F; (3) for a tuber reproduced variety, verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; and (4) payment by credit card or check drawn on a U.S. bank for \$4,382 (\$518 filing fee and \$3,864 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice). NEW: With the application for a seed reproduced variety or by direct deposit soon after filling, the applicant must provide at least 3,000 viable untreated seeds of the variety per se, and for a hybrid variety at least 3,000 untreated seeds of each line necessary to reproduce the variety. Partial applications will be held in the PVPO for not more than 90 days; then returned to the applicant as un-filed. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a payment by credit card or check payable to "Treasurer of the United States" in the amount of \$768 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. The fees for filing a change of address; owner's representative; ownership or assignment; or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

Plant Variety Protection Office

Telephone: (301) 504-5518 FAX: (301) 504-5291

General E-mail: PVPOmail@usda.gov

Homepage: http://www.ams.usda.gov/science/pvpo/PVPindex.htm

SPECIFIC INSTRUCTIONS:

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority and provide evidence that the permanent name of the application variety (even if it is a parental, inbred line) has been cleared by the appropriate recognized authority before the Certificate of Protection is issued. For example, for agricultural and vegetable crops, contact: U.S. Department of Agriculture, Agricultural Marketing Service, Livestock and Seed Programs, Seed Regulatory and Testing Branch, 801 Summit Crossing Place, Suite C, Gastonia, North Carolina 28054-2193 Telephone: (704) 810-8870. http://www.ams.usda.gov/lsg/seed.htm.

ITEM

19a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;

(3) evidence of uniformity and stability; and

- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 19b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach replicated statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 19c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 19d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 19e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 20. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 23. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 24. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 23. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 24. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
 U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, ege, disability, and where applicable, sex, marital status, familial status, parental status, raligion, sexual orientation, genetic information, political beliefs, reprised, or because all or part of an individual's income is derived from any public assistance program (Not all prohibited bases apply to all programs.) Persons with disabilities who require efternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA'S TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 93Y90

Variety 93Y90 evolved from a cross made in the winter of 2000/2001 in Puerto Vallarta with the following parentage:

Parentage = 93B86/YB37Y00*

YB37Y00 = 93B65/S02339 S02339 = 93B65/S01555 S01555 = 93B65/90731S043 90731S043 = 9204/90675 90675 = 9281/G40-3P9273

* G40-3P9273 is an experimental line with the Roundup Ready® (40-3-2) gene

Variety 93Y90 is an F3-derived line which was advanced to the F3 generation by modified single-seed descent. The F3 progeny row of 93Y90 was grown in a plant row yield trial in Illinois in the summer of 2002. Subsequently, 93Y90 has undergone five years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of yield, soybean cyst nematode resistance (race 3), Phytophthora resistance, and resistance to Roundup® branded herbicides; variety 93Y90 was assigned a commercial number.

The purification block was grown in the summer of 2005 in Illinois and 72 sub-lines were harvested. A half (0.50) acre increase was grown in Argentina in 2005/2006. Eighteen (18) acres of parent seed stock (foundation seed equivalent) were grown in the summer of 2006. Approximately 401 acres in the summer of 2007 plus 65 acres in Chile in the winter of 2007/08 were grown as seed stock and production seed.

Exhibit B. Statement of Distinctness

Soybean Variety 93Y90

Variety 93Y90 is most similar to Agripro variety 3955, Beck's variety 385 NRR, and Dairyland variety DSR-395/RR. All four varieties have white flowers, light tawny pubescence, yellow seeds with black hila, and brown pods, resistance to race 3 of the soybean cyst nematode, and resistance to Roundup® branded herbicides. However, 93Y90 has resistance to *Phytophthora megasperma* as governed by the Rps1k gene, whereas 3955, 385 NRR and DSR-395/RR do not have a major gene for resistance to *Phytophthora megasperma* governed by the Rps1K gene.

Variety 93Y90 is also similar to Pioneer variety 93M92. Both varieties have white flowers, light tawny pubescence, yellow seeds with black hila, and brown pods, resistance to *Phytophthora megasperma* as governed by the Rps1k gene, and resistance to Roundup® branded herbicides. However, 93Y90 has resistance to race 3 of the soybean cyst nematode, whereas 93M92 has no resistance to race 3 of the soybean cyst nematode.

Form Approved OMB NO 0581-0055

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U.S. DEPARTMENT OF AGRICULTURE

EXHIBIT

C
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

OBJECTIVE DESCRIPTION OF VARIETY Soybean (Glycine max (L.) Merr.)

NAME OF APPLICANT (S)	TEMPORARY OR EXPERIMENTAL DESIGNATION	VARIETY NAME
Pioneer Hi-Bred International, Inc.	XB40X07	93Y90
ADDRESS (Street and No. or RD No., City, State, Zip Code, and Country 7300 N.W. 62nd Avenue, P.O. Box 1004, John		FOR OFFICIAL USE ONLY PVP NUMBER # 2 0 0 8 0 0 1 0
) when number is either 99 or less or 9 or less respectively. If the calculation of the same colors; designate system used	Data for quantitative plant characters
.		
A. MORPHOLOGY: Seed Shape: 1 = Spherical (L/W, L/T, and T/W ratios ≤1.2)	2 = Spherical-Flattened (L/W ratios> 1.2; L/T ratios ≤ 1.2)	
3 = Elongate (L/W ratios > 1.2; T/W ratios ≤ 1.2)	4 = Elongate-Flattened (L/T ratios ≥ 1.2; L/W ratios ≥ 1.2)	
Seed Coat Color: * 1 1 = Yellow 2 = Green 3 = Bro	wn 4 = Black 5 = Other (Please specify)	
Seed Coat Luster: 1 1 = Dull 2 = Shiny		
Seed Size: * 15.7 grams/100 seeds (rounded to to	he nearest decimal (00.0))	
Hilum Color: * 6 1 = Buff 2 = Yellow 3 = Brown 7 = Other (Please specify)	vn 4 = Gray 5 = Imperfect Black 6	= Black

A. MORPHOLOGY: (continued)

Cotyledon Color:

Seed Protein Peroxidase Activity:

Hypocotyl Color:

('Woodworth' or 'Tracy')

3 = Light Purple below Cotyledons

4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

Leaf Shape:

('Beeson' or 'Pickett 71')

Flower Color:

Pod Color:

Pubescence Color:

Plant Habit:

Maturity Group:

B. DISEASE REACTIONS: 0 = Not Tested

NOTE: Failure to supply information for at least 5 of the following disease reactions will result in significant delay in the examination process. Items denoted by and asterisk are the disease reactions most useful in the examination process.

Bacterial

- Bacterial Pustule (Xanthomonas campestris pv. glycines (Nakano) Dye)
- Bacterial Blight (Pseudomonas syringae pv. glycinea (Coerper) Young, Dye, & Wilkie)
- Wildfire Blight (Pseudomonas syringae pv. tabaci (Wolf & Foster) Young, Dye, & Wilkie)

Fungal

- 1 | Brown Spot (Septoria glycines Hemmi)
- 0 Frogeye Leaf Spot (Cercospora sojina Hara)
- race 1 0
- 0 race 3
- 0 race 5
- race 7

- race 2
- race 4
- race 6
- - Important: Any other races tested (Please specify)

В.	DISEA	SE REA	CTIONS:	(continued)
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	0	Target Spo	t (C	orynespora c	assiid	cola	(Berk. & Cur	rt.) V	Vei)						
	0	1	•	• '			•	•	a (Naum.) Syd	d. Ex	Gäum)				
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	0	i		•				w (:	a.k.a. <i>Phakosp</i>	ora i	nachvrhizia S	vdw '	1)		
	0	1		ase specify)		<i>ع</i> م د	<i></i>	۰۰۰ (۱		<i></i> ,	0401171111214	<i>y</i> (417.)	,,		
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pe		1		ing for reaction	on to I		•		1		la -		- 0		
	0	<i>Rps1</i> (Williams)		0 Rps1-c (Arksoy)	2		R <i>ps1-k</i> (Kingwa)	0	<i>Rps3-b</i> (Pl 172.901)	0	<i>Rps</i> 5 (Pl 91.160)	0 /	R <i>ps?</i> (Nezumisaya,	OX939, C)X940
٠	0	Rps1-a (Mukden)		0 <i>Rps1-d</i> (Pl 103.09		0 /	Rps2 (CNS)	0	Rps3-c (Pl 340.046)	0	1		• ,	ŕ	
٠	0	Rps1-b (Sanga)		0 <i>Rps1-e</i> (Pl 172.90)7) (• .	R <i>ps3-a</i> (Pl 171.442)	0	<i>Rps4</i> (Pl 86.050)	0	Rps7 (Harosoy)				
Ρhν	vtop	hthora Root	Rot	t (Phytophtho	ora soi	iae i	(Kaufmann 8	k Ge	rdemann))						
		race 1		0 race 9			ace 17	0	race 25	0	race 32	0	race 39		
	0	race 2		0 race 10		=	ace 18	0	race 26	0	race 33		race 40		
		race 3	· ·	0 race 11			ace 19	0		0	race 34	0	race 41		
	0	race 4		0 race 12	<u> </u>	Ħ	ace 20	0	race 28	0	race 35	0	race 42		
	H	race 5	\vdash	0 race 13		=	ace 21	0	race 29	0	race 36	0	race 43		
	<u> </u>	race 6	_	nace 14			ace 22	0	race 30	0	race 37	0	race 44		
	=	race 7	<u> </u>) race 15		=	ace 23	0	race 31	n	race 38	0	race 45		
	H	race 8	H) race 16	=	=	ace 24	0	Important: An				J	')	
			L.			<u> </u>		U		,		(·		<i>,</i>	
ļ	1	Bud Blight (Tob	acco Ringspo	ot Viru	us)									
	1	Yellow Mosa	aic ((Bean Yellow	Mosa	aic \	Virus)								
*	1	Cowpea Mo	said	(Cowpea Cl	hloroti	ic V	irus)								
	1	Pod Mottle (Bea	an Pod Mottle	Virus	s)									
* [1	Seed Mottle	(Sc	ybean Mosa	ic Viru	us)									
Vei	mate	ode													
Зоу	/bea	an Cyst Nem	ato	de (<i>Heterode</i>	ra gly	cine	es Ichinohe)								
	0	race 1	0	race 4	0 га	ace	9								
	0	race 2	0	race 5	0 ra	ace	14								
	2	race 3	0	race 6	0 In	mpo	rtant: Any ot	heri	aces tested (F	Pleas	e specify)				_

В.	DI	SEASE REACTIONS: (continued)
	0	Lance Nematode (Hoplolaimus columbus Sher)
	0	Southern Root Knot Nematode (<i>Meliodogyne incognita</i> (Kofoid & White) Chitwood)
	0	Northern Root Knot Nematode (Meliodogyne hapla Chitwood)
	0	Peanut Root Knot Nematode (Meliodogyne arenaria (Neal) Chitwood)
	0	Reniform Nematode (Rotylenchus reniformus Linwood & Olivera)
	0	Javanese Nematode (<i>Meliodogyne javanica</i> (Treub) Chitwood)
	0	Important: Other Nematodes tested (Please specify)
C.	PH	YSIOLOGICAL RESPONSES: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant
	0	Iron Chlorosis on Calcareous Soil
	0	Phosphorus 0 Important: Other (Please specify)
	0	Boron
	0	Aluminum
	0	Salt
	0	Drought
_	ليـــَــا	
D.	IN	SECT REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant
	0	Mexican Bean Beetle (Epilachna varivestis Mulsant)
	2	Soybean Aphid (Aphis glycines Matsamura)
	0	Potato Leaf Hopper (Empoasca fabae (Harris))
	0	Important: Other (Please specify)
E.	HE	RBICIDE REACTIONS: 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Tolerant
	0	Metribuzin
-	0	Bentazone
	1	Sulfonylurea
*	2	Glyphosate
	1	Glufosinate
		Pendimethalin
		Important: Other (Please specify)

F. TRANSGENIC COMPOSITION:

Has the development of the subject variety is	ncluded the insertion of	genetic material from an or	ganism other than a soybean
or, the removal of genetic material from the	application variety?	-	•

If yes, please complete the following information requests*. Use additional pages if necessary.

Ves

No

- 1. Please state the vector's name:
- 2. Please state the vector components:
- 3. Please describe the genetic material successfully transferred into the subject variety:
- 4. Please describe the insertion protocol:
- * A literature citation(s) explaining the four information requests above may be an acceptable alternative to completion of the "Transgenic Composition" portion of this form.

G. BIOCHEMICAL MARKERS:

Please describe any additional genetic and/or biochemical information which you believe will be helpful in further describing the subject variety here (e.g., Single Nucleotide Polymorphisms (SNPs), Simple Sequence Repeats (SSRs), Restriction Fragment Length Polymorphisms (RFLPs), Isozyme characterization, etc.). Use additional pages if necessary.

H. STATISTICAL DATA FOR APPLICATION AND CITED MOST SIMILAR VARIETIES:

Please provide paired comparison data and appropriate statistical test (e.g. LSD. Std. error, ANOVA, Mann-Whitney *U*-test or Kruskal-Wallis Test, etc.) value (95 or > probability level).

Variety	No. of days Maturity	Plant height (cm)	% Linoleic acid	% Oleic acid	% Linolenic acid	% Other fatty acids (specify)	% Total oil	% Protein (Plant dried down to%)
Application Variety Year/Location 1								
Year/Location 2								·
Cited Most Similar Variety Year/Location 1								
Year/Location 2								
LSD .05								

I. COMMENTS:

Number 1:

The Transgenic Composition section is fully addressed in the following publication. Specific details of this vector components and insert elements are summarized in Figure 1 and Table 1 on page 1453. Padgett, S.R. et al. Development, Identification, and Characterization of a Glyphosate-Tolerant Soybean Line. 1995. Crop Science. 35:1451-1461.

Number 3:

93Y90 is not rated high or low for seed protein peroxidase activity. 93Y90 is 76 percent low and 24 percent high for peroxidase activity.

Number 2:

93Y90 is rated as having antibiosis resistance to soybean aphids*. On a scale of one to nine with one being susceptible, and nine being resistance; 93Y90 is rated seven.

*Antibiosis is measured using a growth chamber screening technique that compares the rate of aphid reproduction on different varieties. Antibiosis resistance reduces the rate of growth, survival and reproduction of soybean aphids that feed on soybean plants.

Exhibit D. Additional Description of the Variety

Soybean Variety 93Y90

In Exhibit C we have identified variety 93Y90 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 93Y90 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 93Y90 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 93Y90 is a late Group 3 variety. If Group 3 varieties are divided into tenths, the relative maturity of 93Y90 is 3.9.

Act for definitions.

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ST-470-E (04-03) designed by the Plant Variety Protection Office using Word 2000

REPRODUCE LOCALLY, Include form number and date on all reproductions.

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT F DECLARATION REGARDING DEPOSIT

NAME OF OWNER(S) Pioneer Hi-Bred International, Inc.	ADDRESS (Street and No. or RD No. City, State, and Zip Code and Country) 7300 N.W. 62nd Avenue	TEMPORARY OR EXPERIMENTAL DESIGNATION XB40X07				
	P.O. Box 1004 Johnston, IA 50131-1004	varie 93Y90				
NAME OF OWNER REPRESENTATIVE (S)	ADDRESS (Street and No. or RD No., City, State, and Zip Code and Country)	FOR OFFICIAL USE ONLY				
Paul D. Koelling Cassie J. Prochaska	7300 N.W. 62nd Avenue P.O. Box 1004 Johnston, IA 50131-1004	PVPO NUMBER # 2 0 0 8 0 0 1 0 1				

I do hereby declare that during the life of the certificate a viable sample of propagating material of the subject variety will be deposited, and replenished as needed periodically, in a public repository in the United States in accordance with the regulations established by the Plant Variety Protection Office.

Vaul D. Noelling Signature

January 25, 2008